

## EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits    | Search Query   | DBs                    | Default Operator | Plurals | Time Stamp       |
|-------|---------|--|------------------------|------------------|---------|------------------|
| L2    | 8       | ((CARINNE) near2 (FLEURY)).INV.                          | US-PGPUB; USPAT        | OR               | ON      | 2010/11/03 16:12 |
| L3    | 27      | ((NICOLAS) near2 (NADAUD)).INV.                          | US-PGPUB; USPAT        | OR               | ON      | 2010/11/03 16:12 |
| L4    | 10      | ((SYLVAIN) near2 (BELLIO)).INV.                          | US-PGPUB; USPAT        | OR               | ON      | 2010/11/03 16:12 |
| L5    | 35      | L2 L3 L4   | US-PGPUB; USPAT        | OR               | ON      | 2010/11/03 16:12 |
| L6    | 35      | L5   | US-PGPUB; USPAT        | OR               | ON      | 2010/11/03 16:12 |
| L7    | 12835   | 544/216 428/701 428/212                                  | US-PGPUB; USPAT        | OR               | ON      | 2010/11/03 16:12 |
| L8    | 12835   | L7   | US-PGPUB; USPAT        | OR               | ON      | 2010/11/03 16:12 |
| L9    | 8980    | 428/212  | US-PGPUB; USPAT        | OR               | ON      | 2010/11/03 16:12 |
| L10   | 3855    | 7 not 9  | US-PGPUB; USPAT        | OR               | ON      | 2010/11/03 16:12 |
| S1    | 4       | ("5543229" "5563734" "6472072" "5354446").pn.            | US-PGPUB; USPAT; USOCR | OR               | ON      | 2008/05/22 08:06 |
| S2    | 5       | ("5543229" "5563734" "6472072" "5354446" "6924037" ).pn. | US-PGPUB; USPAT; USOCR | OR               | ON      | 2008/05/22 08:12 |
| S3    | 4219    | gobain.as.   | DERWENT                | OR               | ON      | 2008/05/22 08:28 |
| S4    | 2       | "2827855"  | DERWENT                | OR               | ON      | 2008/05/22 08:31 |
| S5    | 4559500 | FR "2827855" A1  | DERWENT                | OR               | ON      | 2008/05/22 08:33 |
| S6    | 1       | "FR 2827855 A1"  | DERWENT                | OR               | ON      | 2008/05/22 08:34 |
| S7    | 1       | "20020051294"  | DERWENT                | OR               | ON      | 2008/05/22 08:41 |
| S8    | 1       | "20020051294"  | US-PGPUB; USPAT        | OR               | ON      | 2008/05/22 08:41 |
| S9    | 1       | "5563734".pn.  | US-PGPUB; USPAT; USOCR | OR               | ON      | 2008/05/22 08:50 |
| S10   | 1       | "20020051294" and nitride                                | US-PGPUB; USPAT        | OR               | ON      | 2008/05/22 08:58 |

|     |       |  |                 |    |    |                  |
|-----|-------|--|-----------------|----|----|------------------|
| S11 | 16324 | oxide and (zirconium same silicon same nitride)                                    | US-PGPUB; USPAT | OR | ON | 2008/05/22 09:06 |
| S12 | 4634  | oxide and (zirconium same silicon same nitride) and refract\$4                     | US-PGPUB; USPAT | OR | ON | 2008/05/22 09:06 |
| S13 | 2     | oxide and (zirconium same silicon same nitride same "atomic ratio") and refract\$4 | US-PGPUB; USPAT | OR | ON | 2008/05/22 09:06 |
| S14 | 12    | (zirconium same silicon same nitride same "atomic ratio")                          | US-PGPUB; USPAT | OR | ON | 2008/05/22 09:20 |
| S15 | 4     | "mixed oxide" same "atomic ratio" same opt \$5                                     | US-PGPUB; USPAT | OR | ON | 2008/05/22 09:27 |
| S16 | 0     | "mixed oxide" same "atomic ratio" same optimiz\$5                                  | US-PGPUB; USPAT | OR | ON | 2008/05/22 09:27 |
| S17 | 17    | "mixed oxide" same ratio same optimiz\$5   | US-PGPUB; USPAT | OR | ON | 2008/05/22 09:27 |
| S18 | 0     | "mixed oxide" same ratio same optimiz\$5 same refract\$4                           | US-PGPUB; USPAT | OR | ON | 2008/05/22 09:28 |
| S19 | 17    | "mixed oxide" same ratio same optimiz\$5   | US-PGPUB; USPAT | OR | ON | 2008/05/22 09:28 |
| S20 | 246   | (mixed near oxide) same "atomic ratio"   | US-PGPUB; USPAT | OR | ON | 2008/05/22 09:30 |
| S21 | 32    | (mixed near oxide) same "atomic ratio" and refract\$4                              | US-PGPUB; USPAT | OR | ON | 2008/05/22 09:30 |
| S22 | 1     | "20040241406".pn. and zirconium  | US-PGPUB; USPAT | OR | ON | 2008/05/22 10:10 |
| S23 | 1     | "5563734".pn. and infrared   | US-PGPUB; USPAT | OR | ON | 2008/05/22 10:12 |
| S24 | 0     | "5563734".pn. and (overcoat or "cover layer")                                      | US-PGPUB; USPAT | OR | ON | 2008/05/22 10:37 |
| S25 | 0     | "5563734".pn. and "DLC"  | US-PGPUB; USPAT | OR | ON | 2008/05/22 10:37 |
| S26 | 1     | "DLC-based overcoat"   | US-PGPUB; USPAT | OR | ON | 2008/05/22 10:41 |
| S27 | 120   | (DLC or "diamond like carbon") near "overcoat"                                     | US-PGPUB; USPAT | OR | ON | 2008/05/22 10:41 |
| S28 | 17    | (DLC or "diamond like carbon") near "overcoat" and refractive                      | US-PGPUB; USPAT | OR | ON | 2008/05/22 10:41 |

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|-----|-----|---|-----------------|----|----|------------------|
| S29 | 47  | (DLC or "diamond like carbon") near layer near thickness and refractive | US-PGPUB; USPAT | OR | ON | 2008/05/22 10:51 |
| S30 | 1   | "5563734".pn. and (gold or paladium or silver)                          | US-PGPUB; USPAT | OR | ON | 2008/05/22 13:36 |
| S31 | 0   | "5563734".pn. and heat  | US-PGPUB; USPAT | OR | ON | 2008/05/22 13:43 |
| S32 | 0   | "5563734".pn. and aneal   | US-PGPUB; USPAT | OR | ON | 2008/05/22 13:43 |
| S33 | 0   | "5563734".pn. and anneal  | US-PGPUB; USPAT | OR | ON | 2008/05/22 13:43 |
| S34 | 2   | nickel near chromium near nitride near6 refract\$5                      | US-PGPUB; USPAT | OR | ON | 2008/05/22 14:01 |
| S35 | 8   | nickel near chromium near nitride same refract\$5                       | US-PGPUB; USPAT | OR | ON | 2008/05/22 14:01 |
| S36 | 12  | nickel near chromium near oxide same refract \$5                        | US-PGPUB; USPAT | OR | ON | 2008/05/22 14:03 |
| S37 | 890 | "5563"  | US-PGPUB; USPAT | OR | ON | 2008/05/22 14:12 |
| S38 | 36  | "5563734" and refractive and index                                      | US-PGPUB; USPAT | OR | ON | 2008/05/22 14:12 |
| S39 | 1   | "5563734".pn. and refractive and index                                  | US-PGPUB; USPAT | OR | ON | 2008/05/22 14:12 |
| S40 | 1   | "5354466".pn.   | US-PGPUB; USPAT | OR | ON | 2008/05/22 15:13 |
| S41 | 1   | "5354446".pn.   | US-PGPUB; USPAT | OR | ON | 2008/05/22 15:13 |
| S42 | 1   | "5399435".pn.   | US-PGPUB; USPAT | OR | ON | 2008/05/22 15:24 |
| S43 | 1   | "5399435".pn. and magnet\$4   | US-PGPUB; USPAT | OR | ON | 2008/05/22 15:24 |
| S44 | 1   | "5354446".pn. and isostatic   | US-PGPUB; USPAT | OR | ON | 2008/05/27 13:07 |
| S45 | 5   | ((CARINNE) near2 (FLEURY)).INV.   | US-PGPUB; USPAT | OR | ON | 2008/05/28 07:32 |
| S46 | 18  | ((NICOLAS) near2 (NADAUD)).INV.   | US-PGPUB; USPAT | OR | ON | 2008/05/28 07:32 |
| S47 | 5   | ((SYLVAIN) near2 (BELLIO)).INV.   | US-PGPUB; USPAT | OR | ON | 2008/05/28 07:32 |
| S48 | 21  | S45 or S46 or S47   | US-PGPUB; USPAT | OR | ON | 2008/05/28 07:32 |
| S49 | 15  | S48 and zirconium.clm.  | US-PGPUB; USPAT | OR | ON | 2008/05/28 07:33 |

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|-----|--------|---|--------------------|----|----|---------------------|
| S50 | 2      | S48 and zirconium<br>near3 silicon .clm.  | US-PGPUB;<br>USPAT | OR | ON | 2008/05/28<br>07:34 |
| S51 | 5      | ((CARINNE) near2<br>(FLEURY)).INV.  | US-PGPUB;<br>USPAT | OR | ON | 2008/11/13<br>10:33 |
| S52 | 19     | ((NICOLAS) near2<br>(NADAUD)).INV.  | US-PGPUB;<br>USPAT | OR | ON | 2008/11/13<br>10:33 |
| S53 | 6      | ((SYLVAIN) near2<br>(BELLIO)).INV.  | US-PGPUB;<br>USPAT | OR | ON | 2008/11/13<br>10:33 |
| S54 | 23     | S51 S52 S53   | US-PGPUB;<br>USPAT | OR | ON | 2008/11/13<br>10:33 |
| S55 | 11552  | 544/216 428/701<br>428/212  | US-PGPUB;<br>USPAT | OR | ON | 2008/11/13<br>10:35 |
| S56 | 1      | "20040241406".pn.   | US-PGPUB;<br>USPAT | OR | ON | 2009/04/24<br>10:54 |
| S57 | 2      | antireflective and<br>alternating near high<br>near refractive and<br>equation          | US-PGPUB;<br>USPAT | OR | ON | 2009/04/24<br>11:17 |
| S58 | 144    | antireflective and<br>alternating and high<br>near refractive and<br>equation           | US-PGPUB;<br>USPAT | OR | ON | 2009/04/24<br>11:17 |
| S59 | 22     | antireflective and<br>alternating near high<br>and high near<br>refractive and equation | US-PGPUB;<br>USPAT | OR | ON | 2009/04/24<br>11:17 |
| S60 | 655301 | antireflective and silica<br>and refractive index                                       | US-PGPUB;<br>USPAT | OR | ON | 2009/04/24<br>11:19 |
| S61 | 24936  | antireflective and silica<br>and refractive index<br>and etch                           | US-PGPUB;<br>USPAT | OR | ON | 2009/04/24<br>11:19 |
| S62 | 1560   | antireflective and silica<br>and refractive index<br>and etch and mgf                   | US-PGPUB;<br>USPAT | OR | ON | 2009/04/24<br>11:20 |
| S63 | 3909   | antireflective and silica<br>and refractive index<br>and etch and porous                | US-PGPUB;<br>USPAT | OR | ON | 2009/04/24<br>11:20 |
| S64 | 82     | antireflective and silica<br>and refractive near<br>index and etch and<br>porous        | US-PGPUB;<br>USPAT | OR | ON | 2009/04/24<br>11:20 |
| S65 | 252    | antireflective and silica<br>and refractive near<br>index and etch                      | US-PGPUB;<br>USPAT | OR | ON | 2009/04/24<br>11:20 |
| S66 | 1      | "5061874".pn.   | US-PGPUB;<br>USPAT | OR | ON | 2009/04/24<br>11:23 |
| S67 | 1      | "4465337".pn.   | US-PGPUB;<br>USPAT | OR | ON | 2009/04/24<br>11:25 |

|     |       |  |                           |    |    |                     |
|-----|-------|--|---------------------------|----|----|---------------------|
| S68 | 1     | "5098792".pn.  | US-PGPUB;<br>USPAT        | OR | ON | 2009/04/24<br>11:25 |
| S69 | 1     | "3990100".pn.  | US-PGPUB;<br>USPAT        | OR | ON | 2009/04/24<br>11:26 |
| S70 | 22    | antireflective and<br>alternating near high<br>near4 low and high<br>near refractive and<br>equation | US-PGPUB;<br>USPAT        | OR | ON | 2009/04/24<br>11:31 |
| S71 | 49    | antireflective and<br>equation same square<br>near root  | US-PGPUB;<br>USPAT        | OR | ON | 2009/04/24<br>11:33 |
| S72 | 4     | antireflective and<br>equation same square<br>near root same air                                     | US-PGPUB;<br>USPAT        | OR | ON | 2009/04/24<br>11:33 |
| S73 | 7     | ((CARINNE) near2<br>(FLEURY)).INV.   | US-PGPUB;<br>USPAT        | OR | ON | 2009/04/24<br>13:02 |
| S74 | 21    | ((NICOLAS) near2<br>(NADAUD)).INV.   | US-PGPUB;<br>USPAT        | OR | ON | 2009/04/24<br>13:02 |
| S75 | 8     | ((SYLVAIN) near2<br>(BELLIO)).INV.   | US-PGPUB;<br>USPAT        | OR | ON | 2009/04/24<br>13:02 |
| S76 | 27    | S73 S74 S75  | US-PGPUB;<br>USPAT        | OR | ON | 2009/04/24<br>13:02 |
| S77 | 11786 | 544/216 428/701<br>428/212   | US-PGPUB;<br>USPAT        | OR | ON | 2009/04/24<br>13:02 |
| S78 | 11802 | S76 S77  | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2009/04/24<br>13:02 |
| S79 | 7     | ((CARINNE) near2<br>(FLEURY)).INV.   | US-PGPUB;<br>USPAT        | OR | ON | 2010/01/11<br>10:31 |
| S80 | 23    | ((NICOLAS) near2<br>(NADAUD)).INV.   | US-PGPUB;<br>USPAT        | OR | ON | 2010/01/11<br>10:31 |
| S81 | 9     | ((SYLVAIN) near2<br>(BELLIO)).INV.   | US-PGPUB;<br>USPAT        | OR | ON | 2010/01/11<br>10:31 |
| S82 | 30    | S79 S80 S81  | US-PGPUB;<br>USPAT        | OR | ON | 2010/01/11<br>10:31 |
| S83 | 12180 | 544/216 428/701<br>428/212   | US-PGPUB;<br>USPAT        | OR | ON | 2010/01/11<br>10:31 |
| S84 | 12198 | S82 S83  | US-PGPUB;<br>USPAT; USOCR | OR | ON | 2010/01/11<br>10:31 |
| S85 | 12198 | S84  | US-PGPUB;<br>USPAT        | OR | ON | 2010/01/11<br>10:31 |
| S86 | 1     | "5354446".pn.  | US-PGPUB;<br>USPAT        | OR | ON | 2010/11/03<br>12:32 |
| S87 | 10    | Si with Zr with nitride<br>with (mixed<br>composite) same<br>target same sputter\$5                  | US-PGPUB;<br>USPAT        | OR | ON | 2010/11/03<br>12:34 |

|     |     |   |                 |    |    |                  |
|-----|-----|---|-----------------|----|----|------------------|
| S88 | 21  | Si with Zr same nitride same (mixed composite) same5 target same sputter\$5 | US-PGPUB; USPAT | OR | ON | 2010/11/03 12:35 |
| S89 | 11  | S88 not S87   | US-PGPUB; USPAT | OR | ON | 2010/11/03 12:35 |
| S90 | 379 | SiZrN ZrSiN   | US-PGPUB; USPAT | OR | ON | 2010/11/03 12:38 |
| S91 | 29  | (SiZrN ZrSiN) same refract\$5   | US-PGPUB; USPAT | OR | ON | 2010/11/03 12:38 |

### EAST Search History (Interference)

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**11/ 3/ 2010 4:12:46 PM**

**C:\ Documents and Settings\ mnelson2\ My Documents\ EAST\ Workspaces  
 \ 10567901\_\_antireflective ZrSi.wsp**